

General

Title

Metabolism and nutrition: percentage of patients with enteral nutrition (EN) correctly monitored.

Source(s)

Quality indicators in critically ill patients. Madrid (Spain): Spanish Society of Intensive and Critical Care and Units Coronary (SEMICYUC); 2011. 185 p.

Measure Domain

Primary Measure Domain

Clinical Quality Measures: Process

Secondary Measure Domain

Does not apply to this measure

Brief Abstract

Description

This measure is used to assess the percentage of patients with enteral nutrition (EN) correctly monitored.

Rationale

The aim of intensive care medicine is to provide critical patients with the healthcare that they need, ensuring the quality and safety of care. Intensive care medicine is one of the principal components of modern healthcare systems. There is an increasing demand for this resource, which involves high costs.

The quality of care has gradually come to be the central focus of healthcare, and in recent years patient safety has come to represent one of the key aspects of quality. In the case of intensive care medicine, this interest in quality is even more evident, not only because of its social and economic impact, but also because some of the dimensions involved in the quality of care of critical patients take on greater importance: critical patients are more vulnerable, access to critical care is more limited so efforts to distribute resources equitably are more important, scant scientific evidence is available, and the efficiency is limited.

Tolerance to enteral nutrition (EN) enables the goals for caloric intake to be reached effectively. It is important to identify the presence of factors

that can act as potential barriers to the tolerance of EN so that they can be corrected. The appropriate knowledge, definition, and management of the complications that can occur during EN are also important.

Evidence for Rationale

Kreymann KG, Berger MM, Deutz NE, Hiesmayr M, Joliet P, Kazandjiev G, Nitenberg G, van den Berghe G, Wernerman J, DGEM (German Society for Nutritional Medicine), Ebner C, Hartl W, Heymann C, Spies C, ESPEN (European Society for Parenteral and Enteral Nutrition). ESPEN Guidelines on Enteral Nutrition: Intensive care. Clin Nutr. 2006 Apr;25(2):210-23. [70 references] [PubMed](#)

McClave SA, Martindale RG, Vanek VW, McCarthy M, Roberts P, Taylor B, Ochoa JB, Napolitano L, Cresci G, A.S.P.E.N. Board of Directors, American College of Critical Care Medicine, Society of Critical Care Medicine. Guidelines for the Provision and Assessment of Nutrition Support Therapy in the Adult Critically Ill Patient: Society of Critical Care Medicine (SCCM) and American Society for Parenteral and Enteral Nutrition (A.S.P.E.N.). JPEN J Parenter Enteral Nutr. 2009 May-Jun;33(3):277-316. [PubMed](#)

Ortiz Leyba C, Montejo Gonzalez JC, Jimenez Jimenez FJ, Lopez Martinez J, Garcia de Lorenzo y Mateos A, Grau Carmona T, Acosta Escribano J, Mesejo Arizmendi A, Fernandez Ortega F, Ordonez Gonzalez FJ, Bonet Saris A, Blesa Malpica A, Grupo de Trabajo de Metabolismo y Nutricion de la SEMICYUC. [Recommendations for nutritional assessment and specialized nutritional support of critically ill patients]. Nutr Hosp. 2005 Jun;20 Suppl 2:1-3. [PubMed](#)

Quality indicators in critically ill patients. Madrid (Spain): Spanish Society of Intensive and Critical Care and Units Coronary (SEMICYUC); 2011. 185 p.

Primary Health Components

Metabolism; enteral nutrition (EN); monitoring

Denominator Description

Number of patients admitted with enteral nutrition (EN) (see the related "Denominator Inclusions/Exclusions" field)

Numerator Description

Number of patients with enteral nutrition (EN) correctly monitored (see the related "Numerator Inclusions/Exclusions" field)

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A clinical practice guideline or other peer-reviewed synthesis of the clinical research evidence

A formal consensus procedure, involving experts in relevant clinical, methodological, public health and organizational sciences

One or more research studies published in a National Library of Medicine (NLM) indexed, peer-reviewed journal

Additional Information Supporting Need for the Measure

Unspecified

Extent of Measure Testing

Unspecified

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Hospital Inpatient

Intensive Care Units

Professionals Involved in Delivery of Health Services

not defined yet

Least Aggregated Level of Services Delivery Addressed

Single Health Care Delivery or Public Health Organizations

Statement of Acceptable Minimum Sample Size

Unspecified

Target Population Age

Age greater than or equal to 18 years

Target Population Gender

Either male or female

National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim

Better Care

National Quality Strategy Priority

Prevention and Treatment of Leading Causes of Mortality

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need

Getting Better

IOM Domain

Effectiveness

Data Collection for the Measure

Case Finding Period

Unspecified

Denominator Sampling Frame

Patients associated with provider

Denominator (Index) Event or Characteristic

Institutionalization

Therapeutic Intervention

Denominator Time Window

not defined yet

Denominator Inclusions/Exclusions

Inclusions

Number of patients admitted with enteral nutrition (EN)

Population: All patients who receive EN during the intensive care unit (ICU) stay during the period reviewed.

Exclusions

Unspecified

Exclusions/Exceptions

not defined yet

Numerator Inclusions/Exclusions

Inclusions

Number of patients with enteral nutrition (EN) correctly monitored

Note: Monitoring EN must include all of the following

- Checking the amount administered in 24 hours
- Checking the position of the feeding tube
- Checking the patient's position: semiseated (30° to 45°)
- Identification and management of the gastrointestinal complications of EN: increased volume of gastric residue, constipation, EN-associated diarrhea, vomiting, regurgitation, abdominal distension, bronchoaspiration of the diet
- Blood glucose control according to the critical care department's protocol
- Serum electrolytes/24 hours
- Triglycerides, cholesterol, protein electrophoresis/7 days

Exclusions

Unspecified

Numerator Search Strategy

Institutionalization

Data Source

Electronic health/medical record

Paper medical record

Type of Health State

Does not apply to this measure

Instruments Used and/or Associated with the Measure

Unspecified

Computation of the Measure

Measure Specifies Disaggregation

Does not apply to this measure

Scoring

Rate/Proportion

Interpretation of Score

Desired value is a higher score

Allowance for Patient or Population Factors

not defined yet

Standard of Comparison

not defined yet

Prescriptive Standard

Standard: 100%

Evidence for Prescriptive Standard

Quality indicators in critically ill patients. Madrid (Spain): Spanish Society of Intensive and Critical Care and Units Coronary (SEMICYUC); 2011. 185 p.

Identifying Information

Original Title

Monitoring enteral nutrition.

Measure Collection Name

Quality Indicators in Critically Ill Patients

Measure Set Name

Metabolism and Nutrition

Submitter

Spanish Society of Intensive and Critical Care and Units Coronary - Clinical Specialty Collaboration

Developer

Spanish Society of Intensive and Critical Care and Units Coronary - Clinical Specialty Collaboration

Funding Source(s)

Boehringer Laboratories

Composition of the Group that Developed the Measure

Work Group for Metabolism and Nutrition

- Alfonso Mesejo Arizmendi
- Clara Vaquerizo Alonso
- Teodoro Grau Carmona
- Alfons Bonet Sàris
- Carlos Ortiz Leyba
- Pilar Martínez García
- Jimena Abilés
- José Andrés Arboleda
- Encarnación Molina Domínguez
- Juan Carlos Montejo González
- Carmen Sánchez Álvarez
- Francisco Fernández Ortega
- José Acosta Escribano
- Ignacio Herrero Meseguer
- Sergio Ruiz Santana

Scientific Coordination:

- Maria Cruz Martín Delgado
- Jesús Blanco Varela
- Lluís Cabré Pericas
- Pedro Galdos Anuncibay
- Federico Gordo Vidal

Financial Disclosures/Other Potential Conflicts of Interest

Unspecified

Adaptation

This measure was not adapted from another source.

Date of Most Current Version in NQMC

2011 Mar

Measure Maintenance

Unspecified

Date of Next Anticipated Revision

2016 Jul

Measure Status

This is the current release of the measure.

The measure developer reaffirmed the currency of this measure in May 2016.

Measure Availability

Source available in [English](#) and [Spanish](#) from the Spanish Society of Intensive and Critical Care and Units Coronary (SEMICYUC) Web site.

For more information, contact SEMICYUC at Paseo de la Reina Cristina, 36, 4º D, Madrid, Spain; Phone: +34-91-502-12-13; Fax: +34-91-502-12-14; Web site: www.semicyuc.org ; E-mail: secretaria@semicyuc.org

NQMC Status

This NQMC summary was completed by ECRI Institute on January 6, 2014. The information was verified by the measure developer on February 26, 2014.

The information was reaffirmed by the measure developer on May 10, 2016.

Copyright Statement

This NQMC summary is based on the original measure, which is subject to the measure developer's copyright restrictions.

The Quality Indicators in Critically Ill Patients update 2011 can be used by any private or public body only for the purposes of research, clinical management, teaching and education, and will not be used for any other purpose. In all cases, full credit to the Spanish Society of Intensive Care Medicine (SEMICYUC) will be granted. The commercial use of the Quality Indicators in Critically Ill Patients update 2011 is explicitly forbidden.

Production

Source(s)

Quality indicators in critically ill patients. Madrid (Spain): Spanish Society of Intensive and Critical Care and Units Coronary (SEMICYUC); 2011. 185 p.

Disclaimer

NQMC Disclaimer

The National Quality Measures Clearinghouse^{â„¢} (NQMC) does not develop, produce, approve, or endorse the measures represented on this site.

All measures summarized by NQMC and hosted on our site are produced under the auspices of medical specialty societies, relevant professional associations, public and private organizations, other government agencies, health care organizations or plans, individuals, and similar entities.

Measures represented on the NQMC Web site are submitted by measure developers, and are screened solely to determine that they meet the [NQMC Inclusion Criteria](#).

NQMC, AHRQ, and its contractor ECRI Institute make no warranties concerning the content or its reliability and/or validity of the quality measures and related materials represented on this site. Moreover, the views and opinions of developers or authors of measures represented on this site do not necessarily state or reflect those of NQMC, AHRQ, or its contractor, ECRI Institute, and inclusion or hosting of measures in NQMC may not be used for advertising or commercial endorsement purposes.

Readers with questions regarding measure content are directed to contact the measure developer.